METHOD AND SYSTEM FOR SYNCHRONIZING TWO END TERMINALS IN A WIRELESS COMMUNICATION SYSTEM

Abstract of the Disclosure

A system and method of synchronizing two end terminals using beacon synchronization in a wireless local area network are disclosed. In one embodiment, the method comprises i) communicating with a first terminal via first and second channels and communicating with a second terminal via the first and second channels, ii) transmitting a first series of beacon frames (B_{11}, B_{21}, B_{31},..., B_{i1},..., and B_{n1}) and a second series of beacon frames (B_{12}, B_{22}, B_{32},..., B_{i2},..., and B_{n2}) over the first and second channels, respectively, iii) obtaining beacon intervals (b_{i1}, b_{i2}), wherein b_{i1} represents the beacon interval between the ith beacon frame (B_{i1}) and the $(i+1)^{th}$ beacon frame ($B_{(i+1)1}$) for the first series of beacon frames and b_{i2} represents the beacon interval between the ith beacon frame (B_{i2}) and the $(i+1)^{th}$ beacon frame ($B_{(i+1)2}$) for the second series of beacon frames, iv) calculating the beacon interval offset value ($\Delta b_i = |b_i 1 - b_i 2|$) and v) setting the interval between the beacon frames ($B_{(i+1)1}$ and ($B_{(i+2)1}$) in the first channel, and the interval between the beacon frames ($B_{(i+1)2}$ and ($B_{(i+2)2}$) in the second channel, based on the calculated offset value (Δb_i) so as to perform beacon synchronization.